Design Research Quarterly Volume 3, Issue 2

Peter Storkerson

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This article has its origins in a confluence. The major focus of this year’s Design Research Society conference is disciplinarity and its relationship to design. Design Research Quarterly is also been soliciting articles on disciplinary research in communication design. Under the rubric of disciplinarity are many different questions about knowledge, theory, practice, and whether it is possible or desirable to place any given part of design within a disciplinary frame.

This is a particularly thorny question within communication design, the field that has grown out of graphic design: a field which is largely devoid of theoretical knowledge or research. Many modern accounts repeat the past: Gestalt principles of seventy years ago; art-based color theories of Itten, Biren and Albers. Communication design has not built on them. Design texts also establish the field according to tradition, through the quotes of famous designers of the past. These quotes are more evocative or philosophical than precise or operational, and they are not demonstrated within these texts. Instead, they offer a legitimating backdrop.

Research, knowledge and communication design

There are different kinds of research. For example, there is research pertaining to the use of design in particular situations geared toward defining the goals and specifications of the design. Then, there is basic research into how specifications are operationalized: how the designs, themselves, are constructed. The former has been far better served than the latter. For example, when designing wayfinding systems, information designers systematically analyze the actual patterns of decision making and action in specific settings.

Communication designers can be very systematic in utilizing the knowledge of other fields within design, but the knowledge and the fields are not integrated into the core design processes. The heart of communication design—how the physical configuration of physical elements in time and space creates and alters meaning—remains largely a black hole. It is just the kind of black hole that is addressed by basic, disciplinary research within academia.

Put simply, dictionaries define the meaning of the word ‘rule’, for instance as a thin strip of metal used in printing, or the line that it prints, but an actual rule or line has no specified definition or meaning. By the same token, grade school grammar books to not have chapters about location on the page as an element of language. Nevertheless,
Design Research Quarterly Publication Information

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Design Research Quarterly is a peer reviewed journal, published in January, April, July and October by the Design Research Society.

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rules and layout—organization—are tools of communicators and they are effective in determining how communications are interpreted.

**Communication design as intuited**

Lacking systematic ways to approach the field, communication design is viewed and taught as something ineffable, which is directly perceived or intuited by the viewer. If so, it is as obdurate to analysis and empirical research as the fact that two plus two equals four.

Communication design is taught using a non-disciplinary, atelier method. Design instructors teach using projects to present problems. Students learn by solving those problems. Without an analytic understanding of how design works, solutions cannot actually be operationally described, only pointed to. In addition, there are many different kinds of solutions and approaches to problems, so different students learn different things. The instructor has limited control over the process and the outcome. The effectiveness of a solution is the primary criterion, and that is settled by consensus, rather than the prototyping and testing used elsewhere in design.

**Both scientific and humanist**

Certainly, analysis of communication on the level of communication design is difficult, because communication design crosses the borders of scientific and humanist paradigms: scientific observation, causation, prediction and ultimate control of outcomes, and humanist interpretation and retrospective understanding. Designers use physical attributes of the communication to predictively determine or literally “construct” the interpretations of others. This communicative competence is fundamentally scientific and causal; it causes receivers to interpret the communication in specific ways. At the same time, the term “interpretation” carries with it the idea of the individual human, whose creative act of interpreting intervenes between cause (the design) and effect (its interpretation). The communication is what the receiver understands it to be and the receiver reacts on the basis of that understanding.

Handling the contradiction between science and humanities is at the heart of the problem of developing knowledge of the process of designing communications. It means confronting that issue across a range of distinct fields from neural psychology to anthropology. By the same token, it presents an immense open field of investigation into how the configuration of physical elements in time and space creates and alters meaning—that black hole at the center of communication design.

It is tempting to take the view that communication design lacks scholarship because of such inherent issues, but the major causes may be closer to home, within the institutional problems of communication design: its relation to technology and what is steering it: design education.

**Design education in art schools**

Many communication design educators complain about the lack of knowledge content in their field and sometimes, in the narrowness of their own education, since many design educators are products of the same institutional system. Much of the discontent centers on the functioning of design programs within art schools and art departments in universities.

In the United States, at least, most communication design programs are not in schools of communication, architecture or in freestanding schools of design, but within art departments or art schools within universities. Communication design faculty complain about the subservience of design programs to the fine art programs and interests that govern those schools. The art school or art department environment does not allow design programs to develop into what they need to become. It literally colonizes and parasitizes communication design for the benefit of other programs and imposes a “fine art” culture: first, by teaching foundation and upper level design programs from a fine arts perspective; second, by using persons trained as artists to teach design courses. In effect, communication design is deprived of control over its own curriculum, pedagogy, and faculty.

**Is design art?**

Designers see design as a distinct field with its own structure, goals and professional culture. Art schools and departments tend to treat communication design not as a field in itself, but as a specialization within studio art. If design is a specialization within studio art, then the use of art personnel in design programs seems reasonable.

The fine art approach has negative consequences for design students and for design as profession. In practice, communication design is a distinct field with its own content and professional culture. Artists work apart from the everyday world while designers work in it. In contrast to the artist’s interest in creativity and independence, designers are
primarily concerned with the communicative competence of their work, and they orient themselves toward the demands and needs of their clients and the public. It is important for designers to understand their clients, not as outsiders but as insiders.

Fine arts are humanist in their outlook, often identifying themselves in contradistinction to the analytic traditions of the sciences. Studio arts are essentially non-disciplinary. They depend on the development of artistic vision and skill through practice and contemplation, not on theory and research as they are recognized elsewhere. The studio art environment separates design students from the professional cultures of their clients. Its distinctive, non-disciplinary pedagogy signals to students that they operate differently from their clients. It does not give them a background that enables them to fully understand their clients or the content that clients need to communicate. It is hard for example, to communicate financial statistics and their significance without understanding them.

This background tends to limit designers to areas such as corporate identity, promotion and advertising. Other growing and competitive fields are disregarded. These include public communication, business and technical communication, knowledge management, and the larger sphere of information in general. Clients often complain that designers know how to make pretty communications but cannot

<table>
<thead>
<tr>
<th>Studio Fine Art</th>
<th>Communication design</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fine arts are largely visual or depictive: pictures of things or elements that are visually experienced.</td>
<td>Communication design can be depictive but is characteristically symbolic and spatial.</td>
</tr>
<tr>
<td>1. Fine art is most often single mode and visual (painting, sculpture etc.).</td>
<td>1. Outside of traditional print, much communication is multimode: often consisting of non-redundant visual and textual elements.</td>
</tr>
<tr>
<td>2. When text is used, it often functions as a visual element of aesthetic value.</td>
<td>2. Text may function visually and aesthetically, but it is primarily meant to be read. Reading disregards visual aesthetics to concentrate on the meaning of the text.</td>
</tr>
<tr>
<td>1. Fine art is largely media-centric, often media defined (painter, sculptor).</td>
<td>1. Communication design is independent of medium. It is content and user/situation oriented: choosing media according to the job.</td>
</tr>
<tr>
<td>2. It is taught according to medium (painting class, sculpture class).</td>
<td>2. Within art schools, design is often taught in a media-centric way, but can be taught in user/situation or content centric way.</td>
</tr>
<tr>
<td>Content and presentation are developed through the process of making.</td>
<td>Content and method of presentation are planned before making.</td>
</tr>
<tr>
<td>The work is the goal of the process.</td>
<td>The work is a means:</td>
</tr>
<tr>
<td>Artist defines the content.</td>
<td>▶ The designer builds a prototype, not the end product.</td>
</tr>
<tr>
<td>The art work is asserted as an active mediator and participant, distinct from what it represents.</td>
<td>▶ The final product is not an end but a strategy for communication, which can be weighed against alternative strategies.</td>
</tr>
<tr>
<td>Art often provides ambiguities that challenge the viewer.</td>
<td>Design is often most effective when it is transparent. It serves the content presented through its invisibility.</td>
</tr>
<tr>
<td>Artists lack systematic approaches to assessing how their works will be interpreted. For example, empirical research based in cognitive psychology, social interaction, or other fields is not canonical.</td>
<td>The designer seeks clarity.</td>
</tr>
<tr>
<td>Designers need to be able to predict how their designs will be interpreted.</td>
<td></td>
</tr>
</tbody>
</table>

Table 1: Nine contrasts between art and communication design
Invitation

The fourth conference in our current series is an important opportunity to take stock. We will be using it to reflect on and develop the way we run these events as well as aiming to provide an important oversight of the state of the art in research across the design disciplines. We will pay equal attention to the quality of content and the quality of your experience at the conference.

The conference theme, attending to the new kinds of designing that are emerging to challenge our framework of specialisms and reshape our field, will provide some focus for keynote speakers and debates and you may find that relevant to your own work. However this is the main conference for the whole of our society and we are open to all research that informs or arises from designing.

You can find out more about the conference theme and other aspects of the event at the conference website at www.drs2008.designinquiry.wikispaces.net where you can also join the conference mail list to receive updates on the call for papers and the conference arrangements. The call for papers will be announced on 1st September 2007.

The City of Sheffield has a long association with design and the study of design. Sheffield Hallam University is one of the oldest design academies in the world, starting out as Sheffield School of Design in 1843 and today it is home to an interdisciplinary teaching and research centre that brings together the different arts and sciences that make up the landscape of 21st century design. The city was once a watchword for heavy industrial production, with a dark utilitarian image to match, but today, partly through the influence of its designers and artists, it is a centre for new cultural industries. Imaginative work on urban design over the past 10 years has created a new and delightful city centre, surrounding our university with enjoyable spaces as well as public artworks, galleries and cafes. It is also a very friendly city.

I look forward to welcoming you to our city in the middle of next year’s English summer. We will have serious work to do but we also aim to create an enjoyable occasion for you to make new friendships and renew old ones—the real glue of any community.

Chris Rust

Design Research 4th Biennial Conference

Society

Undisciplined!

Rigour in emerging design disciplines and professions

16-19 July, 2008

Sheffield Hallam University, UK

Provisional schedule (consult site)

<table>
<thead>
<tr>
<th>Year</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>01 Sep</td>
<td>Call for Papers</td>
</tr>
<tr>
<td></td>
<td>15 Nov</td>
<td>Deadline for abstracts</td>
</tr>
<tr>
<td></td>
<td>DeDec–Feb</td>
<td>Abstracts accepted</td>
</tr>
<tr>
<td></td>
<td>01 Apr</td>
<td>Deadline for full papers</td>
</tr>
<tr>
<td></td>
<td>01 May</td>
<td>Authors notified</td>
</tr>
<tr>
<td></td>
<td>01 Jun</td>
<td>Deadline for corrected papers</td>
</tr>
<tr>
<td></td>
<td>16-19 Jul</td>
<td>Conference</td>
</tr>
</tbody>
</table>

http://drs2008.designinquiry.wikispaces.net
communicate effectively, because they do not themselves understand what they are communicating, and they do not understand that they need to understand it.

**Case Study:**
Here is a case study. It focuses on the design program within a National Association of Schools of Art and Design (NASAD) accredited art school in a middle range research university. The school has four programs: art history, art education, studio art, and design, which is made up of industrial design and communication design. Art history and art education are considered academic, while design is categorized with studio art.

As of spring, 2008, the school enrollment is 400 undergraduate students and about 50 graduate students. I will look at only undergraduates, as they are by far the largest part of the school, and because there are no graduate programs in design. The school offers B.A. and B.F.A. degrees in fine art. Design students graduate with B.F.A. in fine art, with specializations in communication design or industrial design.

<table>
<thead>
<tr>
<th>Program area</th>
<th>Majors</th>
<th>Voting faculty</th>
<th>Students to faculty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>149</td>
<td>4</td>
<td>37-to-1</td>
</tr>
<tr>
<td>Studio art</td>
<td>136</td>
<td>12</td>
<td>12-to-1</td>
</tr>
<tr>
<td>Art education</td>
<td>31</td>
<td>2*</td>
<td>16-to-1</td>
</tr>
<tr>
<td>Art history</td>
<td>27</td>
<td>4</td>
<td>7-to-1</td>
</tr>
<tr>
<td>Unclassified</td>
<td>57</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table 2: Enrollment, voting, and student faculty ratio by program

Undergraduate enrollment in the school is as follows:

Design is the largest area in the school, with 149 students. Studio Art is second, with 136, of whom 99 are in “general studio”, and 37 are in one of seven specializations: drawing, painting, printmaking, ceramics, sculpture, metals, and glass. Art Education has 31 majors and art history has 27 majors.

The contrast between relative enrollments in programs and faculty representation—voting strength—of those programs is striking (Table 2). The student to faculty ratio in art history is 7-to-1, and with a new position approved for next year, the student-to-faculty ratio in art education will be 16-to-1. In studio art, it is 12-to-1. In design, the ratio is 37-to-1. In communication design, the ratio is 33-to-1. Design’s representation of four voting faculty is a small fraction of studio art’s representation of thirteen. The school’s administration has announced plans to replace some full time faculty positions in design with term and part time hires ‘from the community’, potentially reducing design’s voting strength further.

Some of the reasons for this disparity are themselves telling. There are historic differences in class sizes and course loads, which I will discuss later. The disparities also reflect which faculty actually teach design students: the communication design program’s lack of control over its own pedagogy, instructors and curriculum.

The role of the design program is reduced in two ways: by a heavy load of required courses that students can satisfy only outside of design offerings, and by the use of non-design personnel to teach design courses.

**Curriculum**

Design students are required to take five courses within art history and effectively seven within studio art. Art history courses include three semesters of art history, plus an art history elective, and design history and criticism, which is taught not by a designer but by an art historian, from an art history perspective. Studio art requirements include two foundation courses, drawing courses, computer art courses, and one elective within studio art: all taught by non-design personnel who are not accountable to design faculty.

These required courses benefit the other programs rather than communication design students. They are not geared toward communication design. They do not deal with design problems or design problem solving, and they do not focus on core design software as it is used by designers. At the same time, they occupy curricular space that could be devoted to courses that would be more valuable to communication design, such as courses to teach design specific computer competence and a reputable web/multimedia specialization.

Design students do not generally need more than one required art history course, and many designers do not need to draw figures, so they need not be effectively required to take multiple studio drawing courses. The relationship is not reciprocal. Studio artists are not required to take design courses, and no art courses are taught by designers. Where
there are potential overlaps—courses that might be taken by both studio art students and design students—those courses are taught by art faculty who are not accountable to the design program.

Required courses increase the faculty in the other programs and increase their influence by virtue of their enlarged faculty with its increased voting power and their command of resources. Design does not teach a broad range of classes, so most electives must be taken within studio art or art history.

Electives that must be satisfied within studio art specializations can be used to counteract the problem of upper level studio art courses with small enrollments. Upper level studio art classes average about five students each (including design students). Two or even three courses are sometimes taught together in one class, as is routine in art schools. Design classes remain relatively constant, at or near twenty students per class. In spring of 2008, the largest upper level class in communication design, a web design class, had 27 students, taught by one instructor without a teaching assistant.

Programs with larger faculties have greater depth and width of expertise. They can offer a larger variety and scope of courses. They are better able to serve students and attract a larger pool of applicants.

Another aspect of the merging of design into fine art is the use, in design, of part time design instructors who are not credentialed in design either by degree or professional experience. In this communication design program, first semester typography was taught this year by a part time instructor who received an M.F.A. in printmaking from the school in 2007.

Course load, class size

Course load—the number of classes a faculty member is expected to teach and the time commitment it represents—is also unequal in this school (table 3). This school is within a research university. Such universities usually have a standard teaching load of two courses per semester (2 and 2). Elsewhere in the school faculty teach a 2 and 2, or a 2 and 1 load, but the long standing course load within the design program has been 2 and 3. This year, that load was reduced to 2 and 2, but this still disadvantages design faculty engaged in research.

Lecture courses entail three in-class hours per week with lecture preparation and grading outside of class. Grading time is variable according to whether the course uses tests or written papers, how many tests or papers are required and whether teaching assistants are used.

Studio art classes are scheduled six hours per week. Lectures do not play a major role in these, and grading is generally done in class, so the aggregate load is not far from the academic standard. There are exceptions, such as where faculty maintain kilns or foundries.

<table>
<thead>
<tr>
<th>Course type</th>
<th>Class hours per week</th>
<th>Lecture preparation</th>
<th>Grading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture/academic</td>
<td>3</td>
<td>yes</td>
<td>variable,</td>
</tr>
<tr>
<td>Studio art</td>
<td>6</td>
<td>minimal</td>
<td>in class</td>
</tr>
<tr>
<td>Comm. design</td>
<td>6</td>
<td>yes</td>
<td>extensive,</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>outside class</td>
</tr>
</tbody>
</table>

Table 3: Weekly per class hours and duties by type of class

Communication design classes are six hours per week, like studio art classes. Unlike studio art, communication design requires regular lecture preparation, and frequent outside class grading and critiquing of projects, well in excess of the grading required in academic courses. Teaching assistants are not used in these classes.

Two other factors need to be added: class sizes and teaching ‘on overload’. Upper level (junior-senior) communication design classes typically have fifteen to twenty students: three to four times the size of comparable studio art classes. This increases grading time grading proportionally.

Finally, design faculty supervise senior thesis students: a required course which is taught ‘on overload’: not included in the official class load. The number of students supervised by a faculty member ranges from two to ten.

Research?

Under this kind of system, research is impractical, regardless of the importance of research to the university or to the faculty member. A two course load, with required student contact hours can easily be 30 hours per week or more, and a three course load is easily over 40 (table 4).

With a two course load, research time is limited to an average of 6 to 8 hours per week maximum, and with a three course load, it is quite impossible. Given how design
is taught—the classroom hours, lectures, and grading combined with large class sizes—places design research at a clear disadvantage, even on a two courses per semester teaching load.

The case in this study may show somewhat more distinct patterns than the average but it is not unusual. The administrative head of communication design, who plays the leading role in curriculum and staffing, is an artist rather than a designer. Tenure has not been awarded in this school to any communication design faculty in fifteen years. All five communication design faculty (including full time and part time) exited the program this spring. Still, the school is NASAD accredited. It was inspected in 2006. Many, if not most, of the elements found in this case study are repeated in other schools. They appear to be more often present than absent.

The historical reasons for close relations between communication design and fine art are understandable. As late as twenty years ago, the technologies used in design required hand skills and craft. Computers have transformed design and many other fields by incorporating skills in software. Communication design education has resisted adaptation to new and emerging needs in communication. It adopts new media reluctantly and approaches new media in the same ways as it has treated traditional media. As a result, communication design is in danger of being made obsolete just as portrait painting was made obsolete by photography in the nineteenth century, and photography has been made obsolete by digital cameras and has lost major industry sustaining businesses such as portraiture, documentary photography, and film processing.

There is and will be an important role for communication design, if it is ready, but that role will not be in the form making, artistic aspects. With the increasing use of information and ability to shape communicative experiences, the need for competent communicators will continue to grow. This level of communicative competence will require disciplinary knowledge for predicting how physical attributes affect the communication of meaning.

It is a mistake to define communication design in terms of its current limitations, which reflect its history. The research opportunities remain open and present an opportunity to define and develop disciplinary knowledge for communication design, and for all design where communication is involved. Conducting research requires building an institutional and programmatic setting that will enable research to be developed, as is done in other design fields. As it is, those who are interested in research, such as your editor, are opting to leave the field of design education to look for research opportunities and support elsewhere.

Peter Storkerson

Peter Storkerson received a PhD in design from the Institute of Design, Illinois Institute of Technology. His research interests focus on the measurement and analysis of interpretation, information design and philosophy of science for communication research.

He has taught communication design at Kansas City art Institute, The University at Buffalo SUNY, and Southern Illinois University Carbondale.

### Table 4: Weekly teaching load in hours

<table>
<thead>
<tr>
<th>Duties</th>
<th>Two classes</th>
<th>Three classes</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-class hours</td>
<td>12</td>
<td>18</td>
</tr>
<tr>
<td>Preparation hours</td>
<td>6* (12)</td>
<td>12*</td>
</tr>
<tr>
<td>Grading hours</td>
<td>6</td>
<td>9</td>
</tr>
<tr>
<td>Office/thesis hours</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td><strong>Total teaching hours</strong></td>
<td><strong>30 hours</strong></td>
<td><strong>45 hours</strong></td>
</tr>
</tbody>
</table>

* assuming teaching two sections of one class and one section of the other, 12 and 18 hours if three different courses
Versatility and vicissitude: an introduction to performance in morpho-ecological design (6-11)

Michael Hensel, Achim Menges

- Redefining the utilitarian debate on performance by redefining form ‘as the multitude of effects, the milieu of conditions, modulations and microclimates that emanate from the exchange of an object with its specific environment: a dynamic relationship’ and performance as ‘the synthesis of this dynamic ... making form and function less of a dualism and more of a synergy that aspires to integral design solutions and an alternative model for sustainability’

Form, force and structure: a brief history (12-19)

Remo Pedreschi

- The work of Robert Maillart, Pier Luigi Nervi, Eduardo Torroja, Felix Candela, Heinz Isler and Eladio Dieste ... illustrate the important changes and contributions that have taken place and how they influence the way we think about performance from an engineering point of view.

Form, force, performance: multi-parametric structural design (20-25)

Klaus Bollinger, Manfred Grohmann, Oliver Tessman

- Challenging the ‘20th century classification of structures according to defined building typologies [that] was central to engineering design’

Metabolism and morphology (26-33)

Michael Weinstock

- An account of the dynamics of natural metabolisms ... [suggesting] ... an agenda for the development of metabolic morphologies of buildings and cities

Material performance (34-41)

Michael Hensel, Defne Sunguroglu, Achim Menges

- Researching ‘the characteristics of wood in order to explore how a material’s variable behaviour and its response to extrinsic stimuli might substantially contribute to performance-oriented design’

Manufacturing performance (42-47)

Achim Menges

- Freeform construction, a collaborative effort to develop construction-scale rapid manufacturing processes

Performance-orientated design precursors and potentials (48-53)

Michael Hensel

- The potential of past approaches to passive environmental modulation as a re-worked spatial paradigm for design that interrelates material, spatial and environmental dynamics with dynamic patterns of habitation

Inclusive performance: efficiency versus effectiveness towards a morpho-ecological approach for design (54-63)

Michael Hensel, Achim Menges

- Morpho-ecological approach to design ... [challenging] ... some of the most deeply entrenched dogmas of architecture as a material practice, such as the notion of efficiency in design and construction

Complex brick assemblies (64-73)

Defne Sunguroglu

- Current research on ‘brick ... [as] ... a material with unlimited possibilities, almost completely ignored by modern technology’

Membrane spaces (74-79)

Michael Hensel, Achim Menges

- Developing membrane structures: ‘the findings of a series of membrane-research studios’

Aggregates (80-87)

Michael Hensel, Achim Menges

- Michael Hensel and Achim Menges argue for a better understanding of the behaviour of ... [aggregates] ... in order that they can be used in their loose form ... [requiring] ... a radical departure from architectural design based on assemblies and assembly processes.

Environmental intensifiers (88-95)

Aleksandra Jaeschke

- Developments in fibre-reinforced composite material

Engineering ecologies (96-101)

Peter Trummer

- A shift from physics to biology as the underlying paradigm of engineering ... and with it a fundamental change in the way we conceive and practise architecture

Designing morpho-ecologies: versatility and vicissitude of heterogeneous space (102-111)

Michael Hensel, Achim Menges

- Theoretical and methodological framework for morpho-ecological design in architecture, illustrating it further with two projects that combine research and design

In the midst of (6-11)

Julieanna Preston

- The first thing that the term atmosphere evokes is in the air, the intangibility of air. ... A sort of fragrance or warmth. Atmosphere is created by the particular subject matter or place [corresponding] to it like a sort of spirit ... revealing, betraying a certain essence of the place or subject matter, but remaining ever visible.
This is not entertainment: experiencing the dream house (12-15)
Ted Krueger

Dream House dwells upon a physical interaction between bodily movement and synthesised frequencies to prompt a variable sound spectrum and a specific interior atmosphere.

Making sense: the MIX house (16-19)
Joel Sanders, Karen Van Lengen

[infusing] a speculative domestic environment with digital audio technology.

Domestic afterlives: Rachel Whiteread’s ghost (26-29)
Rachel Carley

the role that the plaster-casting process makes towards visualising the invisible. … the vestigial traces of a room’s surface … as a solid volume capable of depleting light and heat from the space

Olaf Eliasson and the circulation of affects and percepts: in conversation (30-35)
Hélène Frichot

the depths to which his work mobilises atmosphere as an agent of human experience and social action, prompting a subjective transformation

Affecting data (36-45)
Julieanna Preston

an intellectual and industrial investment into the exchange between data (the means of communication as well as informing content) and the affect of its instrumentality

Multivalent performance in the work of Lewis.Tsurumaki.Lewis (46-53)
Paul Lewis, Marc Tsurumaki, David J Lewis

a practice of reconceptualising interior space as a site of innovative material surfaces assembled from the repetition of readily available elements

Condensation: regionalism and the room in John Yeon’s Watzek House (54-59)
Maty Anne Beecher

the local landscape and history figure as condensed renderings within rooms, surfaces and details … interior atmosphere developed as identity within a specific cultural and geographical context

Bridging the threshold of interior and landscape: an interview with Petra Blaisse (64-71)
Lois Weinthal

As curtains and floor coverings furnish programmatically organised interior environments, they reflect larger spatial and historic contexts to demonstrate a confluence of micro and macro scales.

Off the peg: the bespoke interiors of Ben Kelly (72-77)
Graeme Brooker, Sally Stone

interior designer Ben Kelly … about the ideas and intentions behind his work

Living with Freud (78-81)
Lilian Chee

several art installations … the ability of objects to charge interior atmospheres with provocations of gender, modernity, ethnicity, objectivity and domesticity

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Rochus Urban Hinkel

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Charles Rice

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Hugh Campbell

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SANAA’s New Museum of Contemporary Art, New York (98-101)
Jayne Merkel

producing a museum building in New York’s Bowery area ‘that is both rough and ready and beyond the fray’

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Watford Music Centre (102 – 105)
David Littlefield

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AD+ practice profile
Arup Associates (106 – 111)
Jay Merrick

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Can architectural design be research? (112-115)
Michael Weinstock

the possibilities of architects undertaking research in practice

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Neil Spiller
- a grumpy old man as he observes the emergence of an alarming new trend in architecture schools that prioritises style over matter

AD+ Yeang’s Eco-Files
Biofuel from algae (118-119)
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National design strategies and country competitive economic advantage
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Design strategies for technology adoption
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Measuring the future brand effect of graphic design
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What does it mean to be design-led?
Michael Beverland and Francis Farrell,

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What is so sustainable about services? the truth in service & flow
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Using visual representation of concepts to explore users and designers’ concepts of everyday products (142-159)
Marianella Chamorro-Koc, Vesna Popovic, Michael Emmison
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Volker J. Eisenlauer, Christian R. Hoffmann
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The necessity of studio art as a site and source for dissertation research (4-18)
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• art – study & teaching; research; art – provenance; art – philosophy; artists’ studios; art – research
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Navigating a way through plurality and social responsibility (19-26)
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- art – study & teaching; research; curriculum planning; art teachers – training of; nostalgia in art; teaches – psychology

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- experiential learning; gestalt psychology; graphic arts – study & teaching; design – study & teaching; learning ability

The use of projective drawings to determine visual themes in young Kuwaiti women impacted by the Iraqi invasion (70-82)
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Martina Paatela-Nieminen
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Review:
Making a difference: global citizenship in initial teacher training (book). B. Baughen, M. Baughen, M. Glackin, G. Hopper, S. Inman

International Journal of Design
2:1, Apr. 2008
ISSN: 1991-3761 WEB LINK

Three-in-One User Study for Focused Collaboration
Turkka Kalervo Keinonen, Vesa Jääskö, Tuuli Mattelmäki
- a human-centered design approach, the Three-in-One User Study, which applies a set of methods to speed up and focus on the design process

The Product Ecology: Understanding Social Product Use and Supporting Design Culture
Jodi Forlizzi
- product ecology as a theoretical design framework to describe how products evoke social behavior, to provide a road map for choosing appropriate qualitative research methods and to extend design culture within HCI by allowing for flexible, design-centered research planning and opportunity-seeking

Design, Risk and New Product Development in Five Small Creative Companies
Robert N. Jerrard, Nick Barnes, Adele Reid
- five small creative companies were studied in detail over extended periods of the New Product Development (NPD) lifecycle.

How to Rate 100 Visual Stimuli Efficiently
Yaliang Chuang, Lin-Lin Chen
- two computer-based methods are proposed for obtaining attribute rating data, based on multiple attribute scales, for a large number of visual stimuli: the hierarchical sorting method [and] ... the divide-and-conquer method.

Design Case Studies
Perceptual Information for User-Product Interaction: Using Vacuum Cleaner as Example
Li-Hao Chen, Chang-Franw Lee
- [a study] ‘to identify which product designs for parts and directions are most effective, and then propose how perceptual information could best be designed to facilitate user-product interaction’

Perspectives
The Nature of Design Practice and Implications for Interaction Design Research
Erik Stolterman
- Science is not the best place to look for approaches and methods on how to approach design complexity.... Any attempt by interaction design research to produce outcomes aimed at supporting design practice must be grounded in a fundamental understanding of the nature of design practice.

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- [Investigating] the use of a design-without-make unit as part of the design and technology curriculum with pupils aged 14

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Marion Rutland, David Barlex
- ‘to what extent can teachers influence the creativity of pupils aged 11–14 years in design and technology lessons?’
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Susan Valerie McLaren
→ [Examining] the place of manual technical drawing in the 21st century by discussing the perceived value and relevance of teaching school students how to draw using traditional instruments, in a world of computer aided drafting (CAD).

Program equity issues in schooling: The testimony of technology teachers (189-201)
Ronald Edward Hansen
→ [A] narrative inquiry research sets the stage for a critical analysis of our reliance on knowledge versus experience in western education policy and planning.

An exploratory study on the perspectives of prospective computer teachers following project-based learning (203-215)
Selcuk Karaman, Suat Celik
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Analytic network process-based model for selecting an optimal product design solution with zero-one goal programming (15-44)
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Marin Guenov
→ covariance structural equation model, which incorporates a confirmatory and a structural component… for the decomposition of the qualitative customer needs, modelled as latent variables, onto a generally larger number of measurable technical requirements… [to map]… the technical requirements to design parameters

A comparative study on quality design of fixture planning for sheet metal assembly (1-13)
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→ modelling research, industrial approaches and commercial systems and how these relate to whole-life cost estimating

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Micael Derelöv
→ [Strengthening early] ...evaluation methodology by examining the possibilities to identify potential problems within conceptual solutions, and to develop a means that facilitates the evaluation...

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E. A. Appleton, T. D. Short
→ an analogy between the new product design process and a pack/game of cards...a ‘team-based’ methodology for learning the analogy, and ... a number of developments of the analogy that can be used for furthering the understanding of the new product design process

Visible Language 42:1, 2008
Special Issue:
After the Grave: Language and materiality in contemporary Art
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**Artemis Yagou**

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**2009**

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